

NFC NXP-NCI USB dongle

Windows quick start guide

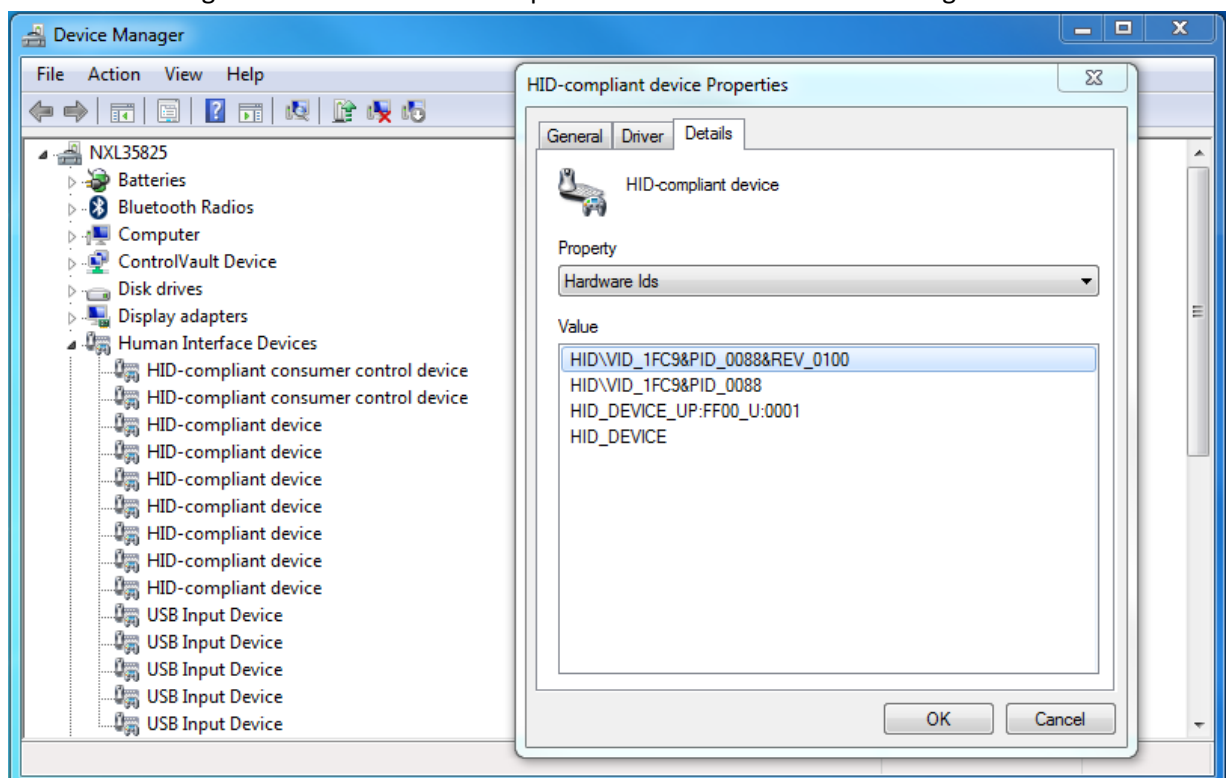


General comments

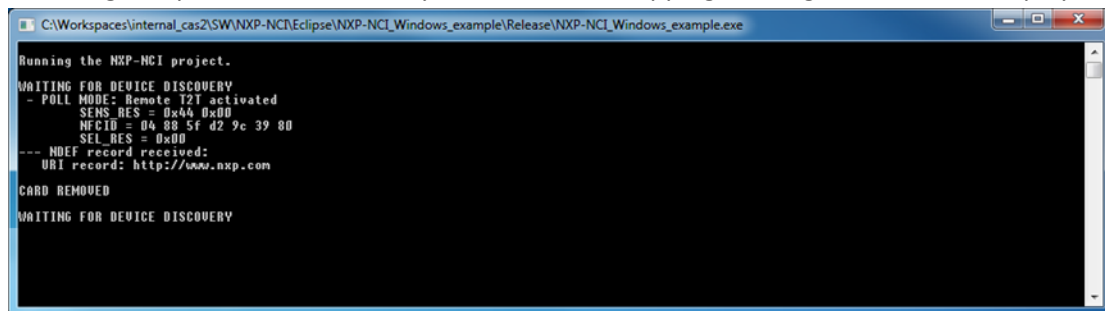
- The NFC functionality is insured thanks to [NXP PN7150 NFC Controller](#)
- USB interfaced is provided via HID standard thanks to [NXP LPC11u24 MCU](#)
- The dongle is supported under Windows based devices through generic HID support of this operating system
- Example is provided to demonstrate full P2P functionality (reader, P2P and card emulation) of the NFC dongle

Quick start

- The dongle is detected as “HID-compliant devices” in the Device Manager:



- Running provided “NXP-NCI_Windows_example.exe” executable, a windows console gets opened. NFC discovery is then started, tapping a card generates such display:



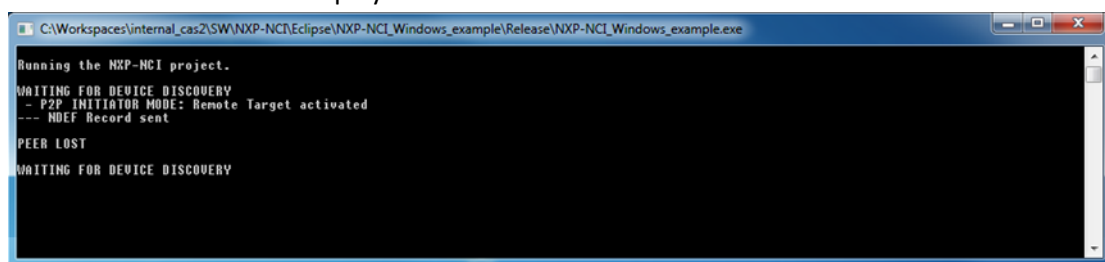
```

C:\Workspaces\internal_cas2\SW\NXP-NCI\Eclipse\NXP-NCI_Windows_example\Release\NXP-NCI_Windows_example.exe

Running the NXP-NCI project.
WAITING FOR DEVICE DISCOVERY
- POLL MODE: Remote T2T activated
  SENS_RES = 0x44 0x00
  NFCID = 04 88 5f d2 9c 39 80
  SEL_RES = 0x00
--- NDEF record received:
  URI record: http://www.nxp.com
CARD REMOVED
WAITING FOR DEVICE DISCOVERY

```

- While tapping a NFC phone triggers the reception of NDEF text record on the phone and the console displays:



```

C:\Workspaces\internal_cas2\SW\NXP-NCI\Eclipse\NXP-NCI_Windows_example\Release\NXP-NCI_Windows_example.exe

Running the NXP-NCI project.
WAITING FOR DEVICE DISCOVERY
- P2P INITIATOR MODE: Remote Target activated
--- NDEF Record sent
PEER LOST
WAITING FOR DEVICE DISCOVERY

```

Building and debugging the example

- Example source code is delivered in the form of Eclipse C/C++ project
- The Example project requires [MinGW toolchain](#)
- The project must be imported into [Eclipse C/C++ IDE](#):
 - File->Import...->Existing projects into Workspace->Select archive file
 - Select the NXP-NCI_example.zip package
 - Tick the “NXP-NCI_Windows_example” project and click Finish button
- Build the project in “Debug” mode
- Then start “Debug As -> Local C/C++ Application”
- Note that the Debug configuration traces all NCI exchanges in the console (enabled according to NCI_DEBUG definition inside GCC C Compiler Preprocessor defined symbols of the project properties)